

CLAIMS

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1. An oral dietary supplement acting by synergy between two bioactive component substances called a component 1 and a component 2.
 2. Said component 1 may be a substance comprising:
 - a. at least one selected from the group consisting of acetyl-L-carnitine, any acylated ester of L-carnitine having an acyl chain of two to six carbon length, and pharmacological acceptable salts and derivatives thereof and mixtures thereof, and
 - b. a pharmacological appropriate dose over the range of 10 milligrams to 20 grams.
 3. Said component 2 may be a substance comprising:
 - a. at least one selected from the group consisting of L-ornithine, L-arginine, L-lysine, L-histidine, L-phenylalanine, L-leucine, L-valine, L-methionine, L-threonine, putrescine, spermidine, and pharmacological acceptable salts and derivatives thereof and mixtures thereof, and
 - b. a pharmacological appropriate dose over the range of 1 milligram to 10 grams.
 4. Various pharmacological dosages of the component 1 and the component 2 may be administered by techniques comprising:
 - a. any appropriate physiological formulation including both solid and liquid formulations and mixtures thereof, and
 - b. any physiologically appropriate method of delivery of an oral dietary supplement, and
 - c. separate oral ingestion of the component 1 and the component 2 at approximately the same time, and
 - d. oral ingestion of a mixture of the component 1 and the component 2 as a single formulation.
 5. Ingestion of the component 1 and the component 2 must be preceded by a fast of approximately 3 to 4 hours.
 6. A method for augmenting the release of growth hormone in humans by the ingestion of the component 1 and the component 2 for the treatment of conditions and disorders selected from the group consisting of aging decline in GH release, obesity, insufficient GH release in the case of pathology and surgery, emergency

$\{f_{\alpha}^{(1)}\}_{\alpha \in \mathbb{N}}$ and $\{f_{\alpha}^{(2)}\}_{\alpha \in \mathbb{N}}$ are two sequences of functions in $L^2(\mathbb{R}^n)$ such that $\|f_{\alpha}^{(1)}\|_{L^2} \rightarrow 0$ and $\|f_{\alpha}^{(2)}\|_{L^2} \rightarrow 0$ as $\alpha \rightarrow \infty$. Let $\{g_{\alpha}\}_{\alpha \in \mathbb{N}}$ be a sequence of functions in $L^2(\mathbb{R}^n)$ such that $\|g_{\alpha}\|_{L^2} \rightarrow 0$ as $\alpha \rightarrow \infty$. Define $h_{\alpha} = f_{\alpha}^{(1)} + f_{\alpha}^{(2)} + g_{\alpha}$. Then $\|h_{\alpha}\|_{L^2} \rightarrow 0$ as $\alpha \rightarrow \infty$.

7. The method claim 6, wherein appropriate pharmacological dose of the component 1 is 500 milligrams and the component 2 dose is 20 to 50 milligrams administered within 1 hour of night time sleep.
8. The method in claim 6, wherein appropriate pharmacological dose of the component 1 is 500 milligrams and the component 2 dose is 20 to 50 milligrams administered 1 hour before extremely vigorous exercise and 1 hour before the large pulatile estrogen release of premenopausal women.
9. A method for augmenting the growth of immature domestic animals by oral ingestion administration of the component 1 and the component 2 within one hour of night time sleep.
10. The method claim 8, wherein the appropriate pharmacological dose of the component 1 is the product of multiplying 8 milligrams by the numerical value of the animal weight in kilograms and the component 2 dose is a range of 1 to 4 milligrams multiplied by the numerical weight of the animal in kilograms.

US PATENT DOCUMENTS

US Patent No.	DATE	NAME	(optional) Class/SubCLASS
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**Disclosure Document Reference
(NOT APPLICABLE)**